PUNJAB POLLUTION CONTROL BOARD

Zonal office-II, Vatavaran Bhawan, Nabha Road,Patiala

Website:- www.ppcb.gov.in

Office Dispatch No :	**Registered/Speed Post**	**Date:**

Industry Registration ID:	*R12PTA73369*	**Application No :**	*12349201*

To,

Sudhir Goyal
Madhav Alloys Ltd,village Akalgarh,amloh Bhadson Road,near Toll Plaza
Fatehgarhsahib,Fatehgarhsahib-147203

Subject: **Grant of "Consent to Establish"(NOC) for Expansion of an existing industrial unit u/s 25 of Water (Prevention & Control of Pollution) Act, 1974 and u/s 21 of Air (Prevention & Control of Pollution) Act, 1981.**

With reference to your application for obtaining 'Consent to Establish'(NOC) for Expansion of an existing industrial plant u/s 25 of Water (Prevention & Control of Pollution) Act, 1974 and u/s 21 of Air (Prevention & Control of Pollution) Act, 1981, you are, hereby, permitted to expand the existing industrial unit to discharge the effluent(s) & emission(s) arising out of your premises subject to the Terms and Conditions as specified in this Certificate.

1. Particulars of Consent to Establish (NOC) for Expansion granted to the Industry

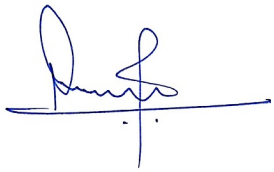
Certificate No.	*CTE/Exp/FGS/2020/12349201*
Date of issue :	*16/07/2020*
Date of expiry :	*15/07/2021*
Certificate Type :	*Expansion*
Previous CTE/CTO No. & Validity :	*CTOA/Varied/FGS/2019/10211170 From:23/06/2019 To:31/03/2020*

2. Particulars of the Industry

Name & Designation of the Applicant	*Sudhir Goyal, (Director)*
Address of Industrial premises	*Madhav Alloys Ltd., Vill. Akalgarh, Amloh Bhadson Road,near Toll Plaza, Amloh,Fatehgarh Sahib-147203*
Existing Capital investment of the industry	*24975.36 lakhs*
Capital investment for Expansion Project	*2264 lakhs*
Category of Industry	*Red*
Type of Industry	*1044-Industry or process involving metal surface treatment or process such as pickling/electroplating/paint stripping/heat treatment using cyanide bath/ phosphating or finishing and anodizing / enamellings/ galvanizing*
Scale of the Industry	*Large*
Office District	*Fatehgarh Sahib*

Consent Fee Details	Rs. 49200/- vide R. no. 27/5155 dated 16/10/2019
Raw Materials (Name with quantity per day)	*MS Scrap 1208.85 MTD , Ferro Alloys and Sponge Iron @ 13.71 MTD, NaCl @ 0.29 MTD, Zinc @ 2 MTD, HCL @ 8000 Ltr/d , MS TMT @ 30000 MTD*
Products (Name with quantity per day)	*MS Billets @ 450000 MTY, TMT Bars/ Wire Rod/MS Round@ 420000 MTY , ERW and MS Black Pipe Galvanized Pipe & Tube # 120000 MTY, Galvanized TMT & Rebar's @ 30000 MTY*
By-Products, if any,(Name with quantity per day)	--
Details of the machinery and processes	*As per details given in application no. 12349201* *TMT Unit :* *Raw Material , Furnace\ Loading, Melting Tapping, Refining High Speed Casting Rolling* *Pipe Unit:* *Raw Material, Slitting Looping, Forming, Welding Sizing & Cutting Bundling, Dispatch Continuous galvanizing* *Rebars :* *Arrival of Rebar- Degreasing- Pickling- Rinsing- Fluxing- Preheater- Galvanizing-*
Details of the Effluent Treatment Plant	*Domestic Effluent @ 44.0 KLD - The industry has installed new STP of Capacity 150 KLD along with UF RO Plant* *Trade Effluent @ 145 KLD- The industry has installed new ETP of Capacity 150 KLD along with UF RO Plant*
Mode of Disposal of Effluent	*Domestic Effluent partly onto land for plantation and partly reused back as process water* *Trade Effluent partly onto land for plantation & partly re-used back as process water*
Standards to be achieved under Water (Prevention & Control of Pollution) Act, 1974	*As per effluent standards prescribed by PPCB, MoEF & CC.*
Sources of emissions and type of pollutants	*2 No. Induction furnace (Existing) of capacity 25 TPH each - SPM* *1 No. Pickling Section (Galvanizing unit) (Existing) of capacity @ 8 Ton/hr - Acid Mist* *1 No. Hot Water Generator (Existing)of capacity 6 lac Kcal/Day - SPM* *1 No. Induction furnace (Proposed) of capacity 25 TPH each - SPM* *1 No. Pickling Section (Galvanizing unit), (Proposed) of capacity 5 Ton/hr- Acid Mist* *1 No. Hot Water Generator (Proposed) of capacity 6 lac Kcal/Day -SPM* *3 no. DG sets of capacity 600 KVA, 550 ,50 KVA- SPM, SOx, NOx*

Mode of disposal of emissions with stack height	*2 No. Induction furnace (Existing) of capacity 25 TPH each - Stack of height 40 mtr above ground level/ 15 mtr above roof level* *1 No. Pickling Section (Galvanizing unit) (Existing) of capacity @ 8 Ton/hr - Stack of height 15 mtr above ground level* *1 No. Hot Water Generator (Existing)of capacity 6 lac Kcal/Day - Stack of height 15 mtr above ground level* *1 No. Induction furnace (Proposed) of capacity 25 TPH each - Stack of height 40 mtr above ground level/ 15 mtr above roof level* *1 No. Pickling Section (Galvanizing unit), (Proposed) of capacity 5 Ton/hr- Stack of height 15 mtr above ground level* *1 No. Hot Water Generator (Proposed) of capacity 6 lac Kcal/Day - Stack of height 15 mtr above ground level* *DG set of capacity 50 KVA- Stack of height 1.5 mtr above roof level* *DG set of capacity 550 KVA and 600 KVA - For higher KVA rating stack height H (in meter) shall be worked out according to the formula:* $H = h+0.2 (KVA)0.5$ *where h = height of the building in meters where the generator set is installed.*
Quantity of fuel required in TPD	*2 No. Induction furnace (Existing) of capacity 25 TPH each - Electricity* *1 No. Pickling Section (Galvanizing unit) (Existing) of capacity @ 8 Ton/hr - Electricity* *1 No. Hot Water Generator (Existing)of capacity 6 lac Kcal/Day - Diesel @ 15 Ltr/day* *1 No. Induction furnace (Proposed) of capacity 25 TPH each - Electricity* *1 No. Pickling Section (Galvanizing unit), (Proposed) of capacity 5 Ton/hr- Electricity* *1 No. Hot Water Generator (Proposed) of capacity 6 lac Kcal/Day - Diesel @ 15 Ltr/day* *3 no. DG sets of capacity 600 KVA, 550 ,50 KVA- HSD*
Type of Air Pollution Control Devices to be installed	*2 No. Induction furnace (Existing) of capacity 25 TPH each - Multi cyclone followed by Bag Filters* *1 No. Pickling Section (Galvanizing unit) (Existing) of capacity @ 8 Ton/hr - Water Scrubber* *1 No. Hot Water Generator (Existing)of capacity 6 lac Kcal/Day - Not required* *1 No. Induction furnace (Proposed) of capacity 25 TPH each - Multi cyclone followed by Bag Filters* *1 No. Pickling Section (Galvanizing unit), (Proposed) of capacity 5 Ton/hr- Water Scrubber* *1 No. Hot Water Generator (Proposed) of capacity 6 lac Kcal/Day - Not required* *3 no. DG sets of capacity 600 KVA, 550 ,50 KVA- Canopies*
Standars to be achieved under Air (Prevention & Control of Pollution) Act, 1981	*As per emission standards prescribed by PPCB, MoEF & CC.*

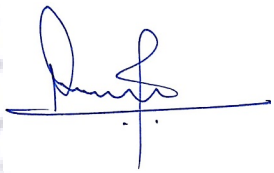


16/07/2020

(Rajeev Gupta)
Environmental Engineer
For & on behalf
of
(Punjab Pollution Control Board)

Endst. No.: **Dated:**

A copy of the above is forwarded to the following for information and necessary action please:
Environmental Engineer, Regional Office, Fatehgarh Sahib.



16/07/2020

(Rajeev Gupta)
Environmental Engineer
For & on behalf
of
(Punjab Pollution Control Board)

A. GENERAL CONDITIONS

1. The industry shall apply for consent of the Board as required under the provision of Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981 & Authorization under Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016, two months before the commissioning of the industry.
2. The industry shall provide adequate arrangements for fighting the accidental leakages/ discharge of any air pollutant/gas/liquids from the vessels, mechanical equipments etc. which are likely to cause environmental pollution.
3. The Industry shall apply for further extension in the validity of the CTE atleast two months before the expiry of this CTE, if applicable.
4. The industry shall comply with any other conditions laid down or directions issued by the Board under the provisions of the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act,1981 from time to time.
5. The project has been approved by the Board from pollution angle and the industry shall obtain the approval of site from other concerned departments, if need be.
6. The industry shall get its building plans approved under the provisions of section 3-A of Punjab Factory Rules, 1952.
7. The industry shall put up display board indicating the Environment data in the prescribed format at the main entrance gate.
8. The industry shall provide port-holes, platforms and/or other necessary facilities as may be required for collecting samples of emissions from any chimney, flue or duct or any other outlets.

   Specifications of the port-holes shall be as under:-

   i) The sampling ports shall be provided atleast 8 times chimney diameter downstream and 2 times upstream from the flow disturbance. For a rectangular cross section the equivalent diameter (De) shall be calculated from the following equation to determine upstream, downstream distance:-

   De = 2 LW / (L+W)

   Where L= length in mts. W= Width in mts.

   ii) The sampling port shall be 7 to 10 cm in diameter

9. The industry shall discharge all gases through a stack of minimum height as specified in the following standards laid down by the Board.

   (i) Stack height for boiler plants

S.NO.	Boiler with Steam Generating Capacity	Stack heights
1.	*Less than 2 ton/hr.*	9 meters or 2.5 times the height of neighboring building which ever is more
2.	*More than 2 ton/hr. to 5 ton/hr.*	12 meters
3.	*More than 5 ton/hr. to 10 ton/hr*	15 meters
4.	*More than 10 ton/hr. to 15 ton/hr*	18 meters
5.	*More than 15 ton/hr. to 20 ton/hr*	21 meters
6.	*More than 20 ton/hr. to 25 ton/hr.*	24 meters
7.	*More than 25 ton/hr. to 30 ton/hr.*	27 meters
8.	*More than 30 ton/hr.*	30 meters or using the formula H = 14 Qg0.3or H = 74 (Qp)0.24 Where Qg = Quantity of SO2 in Kg/hr. Qp = Quantity of particulate matter in Ton/day.

Note : Minimum Stack height in all cases shall be 9.0 mtr. or as calculated from relevant formula whichever is more.

(ii) For industrial furnaces and kilns, the criteria for selection of stack height would be based on fuel used for the corresponding steam generation.

(iii) Stack height for diesel generating sets:

Capacity of diesel generating set	Height of the Stack	
0-50 KVA	Height of the building	+ 1.5 mt
50-100 KVA	-do-	+ 2.0 mt.
100-150 KVA	-do-	+ 2.5 mt.
150-200 KVA	-do-	+ 3.0 mt.
200-250 KVA	-do-	+ 3.5 mt.
250-300 KVA	-do-	+ 3.5 mt.

For higher KVA rating stack height H (in meter) shall be worked out according to the formula:

$$H = h+0.2 (KVA)0.5$$

where h = height of the building in meters where the generator set is installed.

10. The industry shall put up canopy on its DG sets and also provide stack of adequate height as per norms prescribed by the Board and shall ensure the compliance of instructions issued by the Board vide office order no. Admin./SA-2/F.No.783/2011/448 dated 8/6/2010.

11. The industry shall put up canopy on its DG sets and also provide stack of adequate height as per norms prescribed by the Board and shall ensure the compliance of instructions issued by the Board vide office order no. Admin./SA-2/F.No.783/2011/448 dated 8/6/2010.

    (i) Once in Year for Small Scale Industries.

    (ii) Four in a Year for Large/Medium Scale Industries.

    (iii) The industry will submit monthly reading/ data of the separate energy meter installed for running of effluent treatment plant/re-circulation system to the concerned Regional Office of the Board by the 5th of the following month.

12. The industry shall provide flow meters at the source of water supply, at the outlet of effluent treatment plant and shall maintain the record of the daily reading and submit the same to the concerned Regional Office by the 5th day of the following month.

13. The industry shall make necessary arrangements for the monitoring of stack emissions and shall get its emissions analyzed from lab approved / authorized by the Board:-

    (i) Once in Year for Small Scale Industries.

    (ii) Twice/thrice/four time in a Year for Large/Medium Scale Industries.

14. The pollution control devices shall be interlocked with the manufacturing process of the industry.

15. The Board reserves the right to revoke this "consent to establish" (NOC) at any time, in case the industry is found violating any of the conditions of this "consent to establish" and/or the provisions of Water (Prevention & Control of Pollution) Act, 1974 and Air (Prevention & Control of Pollution) Act, 1981 as amended from time to time.

16. The industry shall plant minimum of three suitable varieties of trees at the density of not less than 1000 trees per acre along the boundary of the industrial premises.

17. The issuance of this consent does not convey any property right in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Central, State or Local Laws or Regulations.

18. The consent does not authorize or approve the construction of any physical structures or facilities for undertaking of any work in any natural watercourse.

19. Nothing in this NOC shall be deemed to neither preclude the institution of any legal action nor relieve the applicant from any responsibilities, liabilities or penalties to which the applicant is or may be subjected under this or any other Act.

20. The diversion or bye pass of any discharge from facilities utilized by the applicant to maintain compliance with the terms and conditions of this consent is prohibited except.

    (i) Where unavoidable to prevent loss of life or some property damage or

    (ii) Where excessive storm drainage or run off would damage facilities necessary for compliance with terms and conditions of this consent. The applicant shall immediately notify the consent issuing authority in writing of each such diversion or bye-pass.

21. The industry shall ensure that no water pollution problem is created in the area due to discharge of effluents from its industrial premises.

22. The industry shall comply with the conditions imposed if any by the SEIAA/MOEF in the Environmental Clearance granted to it as required under EIA notification dated 14/9/06, if applicable.

23. The industry shall earmark a land within their premises for disposal of boiler ash in an environmentally sound manner, and / or the industry shall make necessary arrangements for proper disposal of fuel ash in a scientific manner and shall maintain proper record for the same, if applicable.

24. The industry shall obtain and submit Insurance cover as required under the Public Liability Insurance Act, 1991.

25. The industry shall submit a site emergency plan approved by the Chief Inspector of Factories, Punjab as applicable.

26. The industry shall provide proper and adequate air pollution control arrangements for control emission from its coal/fuel handling area, if applicable.

27. The Industry shall comply with the code of practice as notified by the Government / Board for the type of Industries where the siting guidelines / code of practice have been notified

28. Solids, sludge, filter backwash or other pollutant removed from or resulting from treatment or control of waste waters shall be disposed off in such a manner so as to prevent any pollutants from such materials from entering into natural water.

29. The industry shall submit a detailed plan showing therein, the distribution system for conveying waste-waters for application on land for irrigation along with the crop pattern to be adopted throughout the year.

30. The industry shall not irrigate the vegetable crops with the treated effluents which are used/ consumed as raw.

31. The industry shall ensure that its production capacity & quantity of trade effluent do not exceed the quantity mentioned in the NOC and shall not carry out any expansion without the prior permission/NOC of the Board.

32. All amendments/revisions made by the Board in the emission/stack height standards shall be applicable to the industry from the date of such amendments/revisions.

33. The industry shall not cause any nuisance/traffic hazard in vicinity of the area.

34. The industry shall maintain the following record to the satisfaction of the Board :-

    (i) Log books for running of air pollution control devices or pumps/motors used for it.

    (ii) Register showing the result of various tests conducted by the industry for monitoring of stack emissions and ambient air.

    (iii) Register showing the stock of absorbents and other chemicals to be used for scrubbers.

35. The industry shall ensure that there will not be significant visible dust emissions beyond the property line.

36. The industry shall establish sufficient number of piezometer wells in consultation with the concerned Regional Office, of the Board to monitor the impact on the Ground Water Quantity due to the industrial operations, if applicable.

37. The industry shall provide adequate and appropriate air pollution control devices to contain emissions from handling, transportation and processing of raw material & product of the industry

16/07/2020

(Rajeev Gupta)
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PUNJAB

B. SPECIAL CONDITIONS

1) The industry shall comply with the guidelines for abstraction of ground water issued by the Central Ground Water Authority (CGWA).

2) The industry shall submit the completion certificate from PSCST, Chandigarh for all the induction furnaces before obtaining varied consents to operate under the Water Act, 1974 and the Air Act, 1981 from the Board.

3) The industry will submit approved building plans from Competent Authority under the provisions of Punjab Factory Rules, 1952 before or at the time of filing applications for varied consents to operate under Water Act, 1974 & Air Act, 1981.

4) The industry shall comply with all the conditions of Environmental Clearance granted under the EIA notification 14/09/2006.

5) The industry shall develop adequate plantation area for utilization of treated trade and domestic effluent onto land for plantation.

6) The industry shall maintain the record of spent acid (HCL) being lifted by M/s JBR Technology Pvt. Ltd and shall submit the records on regular basis to the Board.

7) The industry shall apply for varied consents under the provisions of Water Act, 1974 & Air Act, 1981 before commissioning of unit at expanded capacity.

8) The industry shall ensure that no air pollution problem / public nuisance / odour problem is created in the area due to discharge of emissions from its premises.

9) The industry shall ensure that it will not emit the black smoke under any circumstances.

10. The industry shall comply with the standard operating system (SOP) prepared by Punjab State Council for Science & Technology (PSCST), Chandigarh for Air Pollution Control Device.

11. The industry shall maintains stabilized its vehicular movement area within industry/entry/exit points, to suppress the dust emissions.

12. The industry shall ensure that the concentration of the suspended particular matter in the flue gas emissions does not exceed the limits prescribed by the Punjab Pollution Control Board /MoEF from time to time.

16/07/2020

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